

REMARKS / ARGUMENTS

The recent Decision on Appeal for the subject application is acknowledged. The claims have been carefully reviewed and amended, in light of the Decision on Appeal, and are now considered to be in condition for allowance.

The structure and method of the invention is for minimizing EME (Electromagnetic Emission) and the crosstalk between the signal lines which are used to write and read the tracks of magnetic disk drives. These signal lines are located on magnetic trace suspension assemblies which move above the magnetic disk drives. The structure and method utilize well-placed single and multiple crossovers on either or both of the lines used to read and write the tracks on magnetic disks. In addition, the structure and method utilize the parasitic capacitances between the write and read lines to couple beneficial voltages which cancel the unwanted crosstalk noise.

Reconsideration of the rejection of claims 1, 3-6, 19 and 21-24, is requested based on the following.

First, the examiner rejected claims 1, 3-6, 19 and 21-24, under 35 U.S.C. 103(a) as being unpatentable over Carpenter et al. (WO 98/20485 A1) in view of Murata et al. (JP 06-342858 A). The appellant argues that the instant application and Carpenter use different

structures to solve different problems. In summary, the instant application solves the problem of preventing interference from the trace assembly itself from interfering with units outside of the trace assembly, while Carpenter solves the problem of protecting the trace assembly from interference from sources outside of the trace assembly. The title of Carpenter et al. contains the words “self-shielding”. On the other hand, independent claim 1 of the instant application, clearly states the purpose of the instant application which is “used to cancel out time-delayed (transmission line effects) parts of said crosstalk and said EME”. In the February 22, 2011 Decision on Appeal, on page 6, it is stated that the judges “find Appellants’ arguments not commensurate with the scope of the claims as there is no claim language directed to Appellants’ argued distinction. We also agree with the Examiner (Ans. 12) that, to whatever extent Carpenter may have a “self-shielding” function, any such function is not precluded by the claim language.” Therefore, independent claims 1 and 19 have been amended to preclude the “self-shielding” function from the instant independent claims as suggested by the Appeal Board and reconsideration of independent claims 1 and 19 is respectfully requested. Similarly, reconsideration of dependent claims 3-6, and 21-24 which depend on independent claims 1 and 19 respectively, is respectfully requested. Independent claim 1 with highlighted changes is shown below.

1. (CURRENTLY AMENDED) A crosstalk and EME (electromagnetic emission) minimizing trace suspension assembly structure comprising:
 - multiple write lines which are crossed between a preamplifier connection point and slider write contact pads;
 - multiple read lines driven by preamplifier circuits;
 - said slider write contact pads, which connect said write lines to said trace suspension assembly structure;
 - slider read contact pads, which connect said read lines to said trace suspension assembly structure; and
 - multiple write lines driven by preamplifier circuits,
wherein said multiple write lines which are crossed between said preamplifier connection point and said slider write contact pads are used to cancel out time-delayed (transmission line effects) parts of said crosstalk and said EME,
in order to prevent said trace suspension assembly from interfering with circuits external from said trace suspension assembly,
wherein said multiple write lines which are crossed are not used to prevent external circuitry from interfering with said trace suspension assembly,
 - wherein a single crossing point of said write lines between said preamplifier connection point and said slider write contact pads is placed halfway between said preamplifier connection point and said slider write contact pads.

Allowance of the application is respectfully requested.

It is requested that should there be any problems with this Amendment, please call the undersigned Attorney at (845) 452-5863.

Respectfully submitted,



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